

Claims

What is claimed is:

1. A system for pre-allocating at least one resource, comprising:
an allocator adapted to pre-allocate the at least one resource;
an identifier adapted to determine whether a consumer of the at least one resource is a registering consumer or a registered consumer;
an associator adapted to associate the at least one pre-allocated resource with a first resource manager, the first resource manager operable to manage the at least one pre-allocated resource for the registering consumer; and
a router adapted to route a request requiring access to the at least one resource associated with the registering consumer to the first resource manager.
2. The system of claim 1, wherein the at least one resource is allocated to a consumer registering to use an application.
3. The system of claim 2, wherein the application is available over a network.
4. The system of claim 3, wherein the network is the Internet.
5. The system of claim 1, wherein the at least one resource is allocated to a consumer registering to use a service.
6. The system of claim 5, wherein the service is available over the Internet.
7. The system of claim 1, wherein the identifier is a computer process.
8. The system of claim 1, wherein the associator is a computer process.
9. The system of claim 1, wherein the router is a computer process.

10. The system of claim 1, the identifier operable to receive Hypertext Transfer Protocol (HTTP) requests.
11. The system of claim 10, wherein the identifier distinguishes consumer requests by examining at least part of a persistent client side hypertext file (cookie).
12. The system of claim 1, wherein the associator records association information concerning an association between the at least one resource and the first resource manager in one or more data structures.
13. The system of claim 12, wherein the one or more data structures include at least one of, a table, an array, a list, a tree, a linked list, a hash and a heap.
14. The system of claim 12, wherein the one or more data structures contain a mapping between the at least one resource and the first resource manager.
15. The system of claim 1, wherein the associator records association information concerning an association between the at least one resource and the first resource manager in one or more databases.
16. The system of claim 15, wherein the one or more databases contain a mapping between the at least one resource and the first resource manager.
17. The system of claim 1, wherein the router accesses one or more data structures containing routing information that facilitates routing the request associated with the registering consumer to the first resource manager.
18. The system of claim 17, wherein the one or more data structures include at least one of, a table, an array, a list, a tree, a linked list, a hash and a heap.

19. The system of claim 18, wherein the one or more data structures contain one or more mappings for one or more consumers to one or more resource managers.

20. The system of claim 1, wherein the routing component accesses one or more databases containing information that facilitates routing the request associated with the registering consumer to the first resource manager.

21. The system of claim 20, wherein the one or more databases contain one or more mappings for one or more consumers to one or more resource managers.

22. A computer readable medium storing computer executable components of the system of claim 1.

23. A method for processing requests from a registering consumer, comprising:

pre-allocating one or more resources for one or more registering consumers;

associating one or more of the pre-allocated resources with a first resource managing component, the first resource managing component operable to manage the one or more pre-allocated resources for the registering consumer;

associating the registering consumer with the first resource managing component; and

routing a request from the registering consumer that requires access to a resource to the first resource managing component.

24. The method of claim 23, wherein data associated with a registering consumer is replicated to one or more resource managers.

25. The method of claim 23, wherein the request requiring access to the resource is not necessarily routed to the first resource manager if the data associated with registering consumer has been replicated to one or more resource managers, the request being routable to the one or more resource managers to which the data has been replicated.

26. The method of claim 23, wherein the request requiring access to the resource is an HTTP request.

27. The method of claim 23, wherein the registering consumer is registering to use at least one of an application and a service.

28. The method of claim 27, the application being available over the Internet.

29. The method of claim 27, the service being available over the Internet.

30. A computer readable medium storing computer executable instructions operable to execute the method of step 23.

31. A data packet adapted to be transmitted between two or more computer processes, the data packet comprising:

information concerning pre-allocating one or more resources for access by one or more registering consumers, the information including at least one of: a resource type; a resource name; a resource capacity; a resource location; a resource availability; an association between a resource and a resource managing component, and an association between a resource managing component and the registering consumer.

32. A system for pre-allocating at least one resource, comprising:
 - means for pre-allocating the at least one resource for consumption by a consumer;
 - means for determining whether data concerning the consumer has been replicated to one or more resource managing components;
 - means for associating the at least one pre-allocated resource with a first resource managing component, where the first resource managing component manages the at least one pre-allocated resource for the consumer before the data concerning the consumer has been replicated to the one or more resource managing components; and
 - means for routing a request generated by the consumer, for whom data has not been replicated to the one or more resource managing components, to the first resource managing component.

2025 RELEASE UNDER E.O. 14176